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**41** [Invited papers on the frontiers of software practice: Cybersecurity](#)

Richard A. Kemmerer

May 2003

**Proceedings of the 25th International Conference on Software Engin**

**Publisher:** IEEE Computer Society

Full text available: pdf(1.17 MB) [Publisher Site](#)

[Additional Infor](#)

As more business activities are being automated and an increasing number of computers are being use  
are being distributed and accessed via an insecure network, such as the Internet. The Internet itself ha

**42** [Run-time adaptation in river](#)

Remzi H. Arpaci-Dusseau

February 2003

**ACM Transactions on Computer Systems (TOCS),** Volume 21 Issue 1

**Publisher:** ACM Press


Full text available:

This paper describes a toolkit to help improve the robustness of code against DoS attacks. We observe firewalls and intrusion detection systems. As a result, many DoS vulnerabilities are not discovered until

45 Speculative synchronization: applying thread-level speculation to explicitly parallel applications


 José F. Martínez, Josep Torrellas  
 October 2002
 **ACM SIGOPS Operating Systems Review , ACM SIGARCH Computer A**

**Publisher:** ACM Press

Full text available:  pdf(1.49 MB)

### Additional Infor

Barriers, locks, and flags are synchronizing operations widely used by programmers and parallelizing compilers to ensure correctness in a shared-memory multiprocessor program, or merely for code simplicity. We propose *Speculative Synchronization*, which applies the phil-

## 46 Evolving RPC for active storage

Muthian Sivathanu, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau  
October 2002

**Publisher:** ACM Press

Full text available:  pdf(1.56 MB)

### Additional Infor

We introduce Scriptable RPC (SRPC), an RPC-based framework that enables distributed system service memory) has substantial computational capabilities; however, traditional methods of building distributed hardware ...

47 A survey of rollback-recovery protocols in message-passing systems

E. N. (Mootaz) Elnozahy, Lorenzo Alvisi, Yi-Min Wang, David B. Johnson  
September 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 3

**Publisher: ACM Press**

Full text available:  pdf(549.68 KB)

### Additional Infor

This survey covers rollback-recovery techniques that do not require special language constructs. In the for system state restoration. Checkpointing can be coordinated, uncoordinated, or communication-indu

**Keywords:** message logging, rollback-recovery

48 Design and evaluation of a conit-based continuous consistency model for replicated services

Haifeng Yu, Amin Vahdat  
August 2002

**Publisher: ACM Press**

Full text available:  pdf(406.85 KB)

### Additional Infor

The tradeoffs between consistency, performance, and availability are well understood. Traditionally, no space between traditional strong and optimistic consistency models for replicated services. We argue th

**Keywords:** Conit, consistency model, continuous consistency, network services, relaxed consistency, i

#### 49 Middleware performance analysis: Performance monitoring of java applications

M. Harkema, D. Quartel, B. M. M. Gijsen, R. D. van der Mei  
July 2002 **Proceedings of the 3rd international workshop on Software and perf**

**Publisher:** ACM Press



Full text available:  pdf(219.69 KB)

### Additional Infor

Over the past few years, Java has evolved into a mature platform for developing enterprise application. This raises the need for the development, validation and analysis of performance models to predict per

**Keywords:** performance measurement and monitoring of java applications

50 Integrating object-oriented programming and protected objects in Ada 95

 A. J. Wellings, B. Johnson, B. Sanden, J. Kienzle, T. Wolf, S. Michell  
June 2002 **ACM SIGAda Ada Letters**, Volume XXII Issue 2  
**Publisher:** ACM Press  
Full text available:  [pdf\(2.09 MB\)](#) Additional Information

Integrating concurrent and object-oriented programming has been an active research topic since the language made it concurrent. A few approaches have taken a concurrent language and made it object-oriented.

**Keywords:** Ada 95, concurrency, concurrent object-oriented programming, inheritance anomaly



51 The evolution of Coda

 M. Satyanarayanan  
May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2  
**Publisher:** ACM Press  
Full text available:  [pdf\(441.35 KB\)](#) Additional Information

Failure-resilient, scalable, and secure read-write access to shared information by mobile and static use challenge through the development of mechanisms for server replication, disconnected operation, adaptation

**Keywords:** Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous data access, distributed networks, mobile computing, optimistic replica control, server replication, translucent cache management

52 Risks to the public: Risks to the public in computers and related systems

 Peter G. Neumann  
May 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 3  
**Publisher:** ACM Press  
Full text available:  [pdf\(1.92 MB\)](#) Additional Information: [full citation](#)



53 Principled design of the modern Web architecture

 Roy T. Fielding, Richard N. Taylor  
May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2  
**Publisher:** ACM Press  
Full text available:  [pdf\(335.47 KB\)](#) Additional Information

The World Wide Web has succeeded in large part because its software architecture has been designed for generality of interfaces, independent deployment of components, and intermediary components to reduce



**Keywords:** Network-based applications, REST, World Wide Web

54 Formalizing the safety of Java, the Java virtual machine, and Java card

 Pieter H. Hartel, Luc Moreau  
December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4  
**Publisher:** ACM Press  
Full text available:  [pdf\(442.86 KB\)](#) Additional Information




We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java to build a coherent set of machine-readable formal models of the whole of Java and its implementation



**Keywords:** Common criteria, programming

-  Hardware Support: A system-on-a-chip lock cache with task preemption support  
Bilge Saglam Akgul, Jaehwan Lee, Vincent John Mooney  
November 2001 **Proceedings of the 2001 international conference on Compilers, arch**  
**Publisher:** ACM Press  
Full text available:  [pdf\(329.38 KB\)](#) Additional Infor

Intertask/interprocess synchronization overheads may be significant in a multiprocessor-shared memo  
has been shown that a hardware solution brings a much better performance improvement than the syr  
Critical ...



**Keywords:** RTOS, SoC, lock synchronization, multi-processor synchronization, preemption, shared me

- 56 Computing curricula 2001  
September 2001 **Journal on Educational Resources in Computing (JERIC)**  
 **Publisher:** ACM Press  
Full text available:  [pdf\(613.63 KB\)](#)  [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citing](#), [index ter](#)

- 57 Implicit coscheduling: coordinated scheduling with implicit information in distributed systems  
 Andrea Carol Arpaci-Dusseau  
August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3  
**Publisher:** ACM Press  
Full text available:  [pdf\(1.83 MB\)](#) Additional Infor



In modern distributed systems, coordinated time-sharing is required for communicating processes to le  
or explicit coscheduling, implementations of which often suffer from many deficiencies: multiple points

**Keywords:** clusters, coscheduling, gang scheduling, networks of workstations, proportional-share schi



- 58 Parallel execution of prolog programs: a survey  
 Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo  
July 2001 **ACM Transactions on Programming Languages and Systems (TOPLA)**  
**Publisher:** ACM Press  
Full text available:  [pdf\(1.95 MB\)](#) Additional Infor

Since the early days of logic programming, researchers in the field realized the potential for exploitatio  
other characteristics, make logic programs interesting candidates for obtaining speedups through paral

**Keywords:** Automatic parallelization, constraint programming, logic programming, parallelism, prolog

- 59 Implementation of a portable software DSM in Java  
 Yukihiro Sohda, Hidemoto Nakada, Satoshi Matsuoka  
June 2001 **Proceedings of the 2001 joint ACM-ISCOPE conference on Java Gran**  
**Publisher:** ACM Press  
Full text available:  [pdf\(896.77 KB\)](#) Additional Infor

Rapid commoditization of advanced hardware and progress of networking technology is now making wi  
commodity clusters, some have articulated the use of Java as a suitable technology to satisfy portabilit

- 60 Specialization tools and techniques for systematic optimization of system software  
 Dylan McNamee, Jonathan Walpole, Calton Pu, Crispin Cowan, Charles Krasic, Ashvin Goel, Perry Wagle,  
May 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 2  
**Publisher:** ACM Press  
Full text available:  [pdf\(178.52 KB\)](#) Additional Infor

Specialization has been recognized as a powerful technique for optimizing operating systems. However and error-prone. The goal of the work described in this paper is to help operating system tuners perform

**Keywords:** operating system specialization, optimization, software architecture

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61 [Columns: Risks to the public in computers and related systems](#)



Peter G. Neumann

January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(3.24 MB\)](#)

Additional Information: [full citation](#)

62 [Chimera: hypermedia for heterogeneous software development environments](#)



Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead

July 2000

**ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(864.32 KB\)](#)

Additional Information: [full citation](#)

Emerging software development environments are characterized by heterogeneity: they are composed of notions of the approach include the following: anchors are established with respect to interactive views

**Keywords:** heterogeneous hypermedia, hypermedia system architectures, link servers, open hypermedia

63 [Integrating object-oriented programming and protected objects in Ada 95](#)



A. J. Wellings, B. Johnson, B. Sanden, J. Kienzle, T. Wolf, S. Michell

May 2000

**ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 22 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(245.47 KB\)](#)

Additional Information: [full citation](#)

Integrating concurrent and object-oriented programming has been an active research topic since the late 1980s and made it concurrent. A few approaches have taken a concurrent language and made it object-oriented

**Keywords:** Ada 95, concurrency, concurrent object-oriented programming, inheritance anomaly

64 [Multigrain shared memory](#)



Donald Yeung, John Kubiawicz, Anant Agarwal

May 2000

**ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(369.18 KB\)](#)

Additional Information: [full citation](#)

Parallel workstations, each comprising tens of processors based on shared memory, promise cost-effective



area network to synthesize larger shared-memory systems. We call these systems Distributed Shared-

**Keywords:** distributed memory, symmetric multiprocessors, system of systems

65 Distributed object implementations for interactive applications

Vijaykumar Krishnaswamy, Ivan B. Ganey, Jaideep M. Dharap, Mustaque Ahamad

April 2000

**IFIP/ACM International Conference on Distributed systems platform**

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(175.94 KB\)](#)

Additional Infor

As computers become pervasive in the home and community and homes become better connected, ne interact and cooperate by manipulating shared objects. A timely response to user actions, which can p


66 A distributed object oriented framework to offer transactional support for long running business p

Brian Bennett, Bill Hahm, Avrahm Leff, Thomas Mikalsen, Kevin Rasmus, James Rayfield, Isabelle Rouvel

April 2000

**IFIP/ACM International Conference on Distributed systems platform**


**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(280.88 KB\)](#)

Additional Infor

Many business processes are both long running and transactional in nature. They are also mostly multi not fully support the requirements of such processes, and as a result, application developers must dev


67 A collaboration specification language

 Du Li, Richard R. Muntz

December 1999

**ACM SIGPLAN Notices , Proceedings of the 2nd conference on Domai**

**Publisher:** ACM Press

Full text available:  [pdf\(1.11 MB\)](#)

Additional Infor

COCA (Collaborative Objects Coordination Architecture) was proposed as a novel means to model and : language. Over the past year, both the collaboration model and the specification language have been s


68 Deciding when to forget in the Elephant file system

 Douglas S. Santry, Michael J. Feeley, Norman C. Hutchinson, Alistair C. Veitch, Ross W. Carton, Jacob Ofi

December 1999

**ACM SIGOPS Operating Systems Review , Proceedings of the seventi**

**Publisher:** ACM Press

Full text available:  [pdf\(1.61 MB\)](#)

Additional Infor

Modern file systems associate the deletion of a file with the immediate release of storage, and file writi disks make it possible for the file system to protect valuable data from accidental delete or overwrite.T


69 Implementing jalapeño in Java

 Bowen Alpern, C. R. Attanasio, Anthony Cocchi, Derek Lieber, Stephen Smith, Ton Ngo, John J. Barton, S

October 1999

**ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN confe**


**Publisher:** ACM Press

Full text available:  [pdf\(1.57 MB\)](#)

Additional Infor

Jalapeño is a virtual machine for Java™ servers written in Java.A running Java program involves four l machine rather than above it, Jalapeño reduces the boundary-crossing overhead and opens up more o


70 The holodeck ray cache: an interactive rendering system for global illumination in nondiffuse env

 Gregory Ward, Maryann Simmons

October 1999

**ACM Transactions on Graphics (TOG), Volume 18 Issue 4**

**Publisher:** ACM Press

Full text available:  [pdf\(935.74 KB\)](#)

Additional Infor

We present a new method for rendering complex environments using interactive, progressive, view-inc of nondiffuse environments with full global illumination. Ray sample density varies locally according to

**Keywords:** illumination, image reconstruction, mesh generation, ray tracing, rendering system, virtua

71 Composable ad hoc location-based services for heterogeneous mobile clients

Todd D. Hodes, Randy H. Katz


October 1999 **Wireless Networks**, Volume 5 Issue 5

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(403.18 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


72 Digest of proceedings seventh IEEE workshop on hot topics in operating systems March 29-30 1

 M. Satyanarayanan

October 1999

**ACM SIGOPS Operating Systems Review**, Volume 33 Issue 4


**Publisher:** ACM Press

Full text available:  pdf(1.67 MB)

Additional Infor

The Seventh IEEE Workshop on Hot Topics in Operating Systems was held on March 29-30 1999 at the gone to considerable effort to make the operation of the workshop smooth and pleasant for the partici


73 A study of locking objects with bimodal fields

 Tamiya Onodera, Kiyokuni Kawachiya

October 1999

**ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN confe**


**Publisher:** ACM Press

Full text available:  pdf(1.45 MB)

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Object locking can be efficiently implemented by bimodal use of a field reserved in an object. The field for Java achieves the highest performance in the absence of contention, and is still fast enough when c


74 Flexible collaboration transparency: supporting worker independence in replicated application-sh

 James Begole, Mary Beth Rosson, Clifford A. Shaffer

June 1999

**ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6

**Publisher:** ACM Press


Full text available:  pdf(312.22 KB)

Additional Infor

This article presents a critique of conventional collaboration transparency systems, also called "applicat are inefficient in their use of network resources and lack support for key groupware principles: concurr

**Keywords:** Flexible JAMM, Java, application sharing, collaboration transparency, computer-supported


75 Java resources for computer science instruction

 Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lav

December 1998

**ACM SIGCSE Bulletin**, Volume 30 Issue 4


**Publisher:** ACM Press

Full text available:  pdf(2.29 MB)

Additional Infor

The goal of this working group was to collect, evaluate, and foster the development of resources to ser example, integrate Internet-based distributed programming, concurrency, database programming, gra


76 Java resources for computer science instruction

 Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lav

December 1998



**Working Group reports of the 3rd annual SIGCSE/SIGCUE ITiCSE confere**

**Publisher:** ACM Press

Full text available:  pdf(107.98 KB)



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77 A comparison of the concurrency features of Ada 95 and Java

 Benjamin M. Brosgol  
November 1998 **ACM SIGAda Ada Letters , Proceedings of the 1998 annual ACM SIGAda intern:**  
**Publisher:** ACM Press  
Full text available:  [pdf\(1.99 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [inc](#)



**Keywords:** Ada, Java, concurrency, inheritance anomaly, object-oriented programming, tasking, three:

78 Java resources for computer science instruction

 Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lav  
October 1998 **ACM SIGCUE Outlook**, Volume 26 Issue 4  
**Publisher:** ACM Press  
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The goal of this working group was to collect, evaluate, and foster the development of resources to ser  
example, integrate Internet-based distributed programming, concurrency, database programming, gra

79 Performance isolation: sharing and isolation in shared-memory multiprocessors

 Ben Verghese, Anoop Gupta, Mendel Rosenblum  
October 1998 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Pr**  
Volume 33 , 32 Issue 11 , 5  
**Publisher:** ACM Press  
Full text available:  [pdf\(1.69 MB\)](#) Additional Infor

Shared-memory multiprocessors (SMPs) are being extensively used as general-purpose servers. The ti  
resources. The operating systems for these machines (UNIX or Windows NT) provide very few controls

80 Concurrency and distribution in object-oriented programming

 Jean-Pierre Briot, Rachid Guerraoui, Klaus-Peter Lohr  
September 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 3  
**Publisher:** ACM Press  
Full text available:  [pdf\(289.34 KB\)](#) Additional Infor

This paper aims at discussing and classifying the various ways in which the object paradigm is used in  
applies object-oriented concepts, as they are, to structure concurrent and distributed systems through

**Keywords:** concurrency, distribution, integration, libraries, message passing, object, reflection

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